



RETURN BIDS TO:

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Bid Receiving Public Works and Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada
1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
Halifax
Nova Scotia
B3J 1T3
Bid Fax: (902) 496-5016

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Atlantic Region Acquisitions/Région de l'Atlantique
Acquisitions
1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
Halifax
Nova Scotia
B3J 1T3

Title - Sujet Software Development Support Software Development Support to Research Systems	
Solicitation No. - N° de l'invitation W7707-216856/B	Amendment No. - N° modif. 008
Client Reference No. - N° de référence du client W7707-21-6856	Date 2021-12-07
GETS Reference No. - N° de référence de SEAG PW-SHAL-219-11372	
File No. - N° de dossier HAL-0-84114 (219)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Atlantic Standard Time AST on - le 2021-12-16 Heure Normale de l'Atlantique HNA	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Richard, Linda K.	Buyer Id - Id de l'acheteur hal219
Telephone No. - N° de téléphone (902) 402-9059 ()	FAX No. - N° de FAX (902) 496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

AMENDMENT 8

This amendment is issued in response to the following.

SECTION 1: BIDDER QUESTIONS

Question 1: Annex 1 to Part 4 – Evaluation Procedures and Basis of Selection Clause 1.2 Programmer/Analyst – Level 1, Level 2 and Level 3:

- a) M2 states: “the Bidder must propose resources with a combined minimum of 12 months experience in the last 60 months in developing with Unity.” This is identified as a Mandatory requirement however in reviewing the Statement of Work we do not see a reference to Unity experience. Please provide more detail on how Unity could be used?

Response a)

Unity is what we use for Virtual Reality and Augmented Reality applications. Except in an extraordinary case where Unity could not be used, the successful bidder will need to develop any AR/VR applications using Unity in order to leverage existing code and team knowledge.

- b) M13 states: “the Bidder must propose resources with a minimum of 6 months experience within the past 120 months developing software for Distributed Interactive Simulation (DIS). Each resource counted for this requirement must have at least 3 months experience within the last 120 months”. This is identified as a Mandatory requirement however in reviewing the Statement of Work we do not see a reference to DIS experience. Please provide more detail on how DIS could be used?

Response b)

We have existing applications that make use of DIS and might be integrated with the larger body of work on our system.

- c) M14 states: “the Bidder must propose resources with a minimum of 6 months experience within the past 120 months developing software for High Level Architecture (HLA) simulation interoperability standard. Each resource counted for this requirement must have at least 3 months experience within the last 120 months”. This is identified as a Mandatory requirement however in reviewing the Statement of Work we do not see a reference to HLA experience. Please provide more detail on how HLA could be used?

Response c)

We have existing applications that make use of HLA and might be integrated with the larger body of work on our system.

Question 2:

Would the Crown consider making the above point-rated rather than mandatory criteria?

Response 2:

We will make the DIS and HLA criteria point rated, but Unity must remain mandatory. Please see the updated Evaluation Criteria below. M13 and M14 have been deleted and replaced with point rated criteria P10.1 and P10.2. The points have also been updated to reflect this change.

Question 3:

Firm Price Tasks: Paragraph 7.9.1(i), Basis of Payment, states that "Professional Services provided under a Task Authorization with a Firm Price: For professional services requested by Canada, in accordance with a validly issued Task Authorization, Canada will pay the Contractor the firm price set out in the Task Authorization (based on the firm, all-inclusive per diem rates set out in Annex "B", Applicable taxes extra.)"

The only reference to basis of payment for task authorizations is on a firm price basis. Please confirm whether the task pricing approach will allow only for Firm Prices? Or will the Contractor be permitted to submit a "Firm Price", or "Ceiling Price" or "Limitation of Expenditure" quotes as appropriate?

Response 3:

Please see Revised Basis of Payment below.

Question 4:

No Material: The Basis of Payment has not requested the Contractor to confirm mark-up on Material costs nor Mark-up on Subcontractor costs. Please confirm that Canada is not contemplating any purchases of material in the resultant contract.

Response 4:

DRDC can confirm that we do not require the purchase of material through this requirement.

SECTION 2: UNDER ANNEX 1 TO PART 4 – EVALUATION PROCEDURES AND BASIS OF SELECTION

Delete: in its entirety

Insert: The following revised Annex 1 to Part 4

ANNEX 1 TO PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

Estimated Number of Resources Required

Stream	Resource Category	Level of Expertise	Estimated Number of Resources Required
1	A.7 Programmer/Analyst	Level 1 (<5 years of experience)	2
1	A.7 Programmer/Analyst	Level 2 (5 ≤ 10 years of experience)	1
1	A.7 Programmer/Analyst	Level 3 (10+ years of experience)	1
3	I.4 Database Modeller/Information Management Modeller	Level 1 (<5 years of experience)	1
3	I.1 Data Conversion Specialist	Level 2 (5 ≤ 10 years of experience)	1
4	B.14 Technical Writer	Level 2 (5 ≤ 10 years of experience)	1
5	P.9 Project Manager	Level 1 (<5 years of experience)	1

1. MANDATORY EVALUATION CRITERIA

In their proposals, bidders must demonstrate they meet the following mandatory criteria. Failure to meet any of the mandatory criteria will render the bid non-compliant and it will be given no further consideration.

For Proposed Resources:

The technical bid must include résumés for the resources as identified in Annex “(E)”. The Technical bid must demonstrate that each proposed individual meets the qualification requirements described (including any educational requirements, work experience requirements, and professional designation or membership requirements).

1.1 Bidder Experience

	CRITERIA	Please Cross Reference to Specific Pages in your Proposal
M1	<p>The Bidder must have previous experience managing two similar* contracts within the past 120 months.</p> <p>The Bidder must provide a summary of each contract, including:</p> <ul style="list-style-type: none">• the value and length of the contract;• a description of the work;• the number of resources managed per year;• a description of the strategies used to manage the contract. <p>*For Previous Similar Projects: Where the bid must include a description of previous similar projects: (i) a project must have been completed by the Bidder itself (and cannot include the experience of any proposed subcontractor or any affiliate of the Bidder); (ii) a project must have been completed] by the bid closing date; (iii) each project description must include, at minimum, the name and either the telephone number or e-mail address of a customer reference; and (iv) if more similar projects are provided than requested, Canada will decide in its discretion which projects will be evaluated. A project will be considered “similar” to the Work to be performed under any resulting contract if the project was for the performance of work that closely matches the descriptions of the Resource Categories identified in Annex “(A)”.</p> <p>(v) Work will be considered to “closely match” if the work in the provided project is described in at least 50% of the points of responsibility listed in the description of the given Resource Category.</p>	

1.2 Programmer/Analyst – Level 1, Level 2 and Level 3

	CRITERIA	Please Cross Reference to Specific Pages in your Proposal
M2	<p>The Bidder must propose resources with a combined minimum of 12 months experience in the last 60 months in developing with Unity.</p> <p>Each resource counted for this requirement must have at least 3 months experience within the last 60 months.</p>	
M3	<p>The Bidder must propose resources with a combined minimum of 24 months experience in the last 120 months working with and developing for the Windows 10 and Windows Server 2012 (or higher) platform.</p> <p>Each resource counted for this requirement must have at least 6 months experience within the last 120 months.</p>	
M4	<p>The Bidder must propose resources with a combined minimum of 24 months experience within the last 120 months, working with and developing for, at least one of the following Linux distributions:</p> <ul style="list-style-type: none">• RedHat;• CentOS; and• Ubuntu. <p>Each resource counted for this requirement must have at least 6 months experience within the last 120 months.</p>	
M5	<p>The Bidder must propose resources with a combined minimum of 24 months experience within the last 120 months in developing with C++.</p> <p>Each resource counted for this requirement must have at least 12 months experience within the last 120 months.</p>	
M6	<p>The Bidder must propose a resources with a combined minimum of 12 months experience within the last 60 months with Kubernetes, or they must have formal training.</p> <p>Each resource counted must have at least 3 months experience within the last 60 months. Formal training will be accepted if it was included in a university course or was a minimum 3-day course.</p>	

1.2 Programmer/Analyst – Level 1, Level 2 and Level 3 continued

	CRITERIA	Please Cross Reference to Specific Pages in your Proposal
M7	<p>The Bidder must propose resources with a combined minimum of 12 months experience within the last 60 months developing applications that use Apache ActiveMQ, Apache Kafka, or other Java Messaging System implementation.</p> <p>Each resource counted for this requirement must have at least 3 months experience within the last 60 months.</p>	
M8	<p>The Bidder must propose resources with a combined minimum of 12 months experience within the last 60 months developing HTML5 web applications including the use of CSS and JavaScript.</p> <p>Each resource counted for this requirement must have at least 6 months experience within the last 60 months.</p>	
M9	Duplicate	
M10	<p>The Bidder must propose resources with a combined minimum of 12 months experience within the last 120 months developing applications that make use of Web Mapping Services (WMS) and Web Feature Services (WFS).</p> <p>Each resource counted for this requirement must have at least 3 months experience within the last 120 months.</p>	
M11	Duplicate	
M12	<p>The Bidder must propose resources with a combined minimum of 12 months experience within the last 36 months, applying machine learning techniques to practical problems.</p> <p>Each resource counted for this requirement must have at least 6 months experience within the last 36 months.</p>	
M13	Deleted	
M14	Deleted	

1.3 Database Modeller/Information Management Modeller – Level 1

	CRITERIA	Please Cross Reference to Specific Pages in your Proposal
M15	The Bidder must propose a minimum of one resource with a minimum of 12 months experience in the last 60 months in data modelling.	

1.4 Data Conversion Specialist – Level 2

	CRITERIA	Please Cross Reference to Specific Pages in your Proposal
M16	<p>The Bidder must propose a minimum of one resource with a minimum of 60 months experience in the last 180 months working with meteorological, oceanographic, and/or other geospatial data.</p> <p>The bidder must give 3 examples of the resource's work, including the general type of data, the conversion done to it, and the intended end use.</p>	

1.5 Technical Writer – Level 2

	CRITERIA	Please Cross Reference to Specific Pages in your Proposal
M17	<p>The Bidder must demonstrate that the proposed resource has produced the following kinds of technical documentation:</p> <ul style="list-style-type: none">• software user guides;• user training materials;• developer documentation (including for APIs);• architecture and design documentation;• specification sheets and overview brochures. <p>The Bidder must also provide one document from each of two of the listed types, produced by the proposed resource within the last 60 months.</p>	

1.6 Project Manager – Level 1

	CRITERIA	Please Cross Reference to Specific Pages in your Proposal
M18	The Bidder must demonstrate that the proposed resource has been a project manager for similar types of contract within the past 120 months.	

2. POINT-RATED EVALUATION CRITERIA

In their proposals, bidders must demonstrate they obtain the required minimum points specified in criteria P8, P11 and P12 and obtain a minimum of 140 points overall.

Failure to meet these minimum points will render the bid non-compliant and it will be given no further consideration.

2.1 Programmer/ Analyst – Level 1, Level 2 and Level 3

Data Conversion Specialist – Level 2

	POINT-RATED EVALUATION CRITERIA	POINT BREAKDOWN STRUCTURE	Minimum	Maximum	Please Cross Reference to Specific Pages in your Proposal
P1	The Bidder should demonstrate that the proposed resource(s) have experience developing in C within the last 120 months. Points are awarded per resource up to the maximum points listed.	Points per resource: 0-6 months = 0 points 7-11 months = 5 points 12 or more months = 10 points	0	20	
P2	The Bidder should demonstrate that the proposed resource(s) have experience developing in Python 3 within the last 60 months. Points are awarded per resource, up to the maximum points listed.	Points per resource: 0-3 months = 0 points 4-6 months = 5 points 7 or more months = 10 points	0	30	
P3	The Bidder should demonstrate that the proposed resource(s) have	Points per resource:	0	10	

	experience developing in MatLab within the past 60 months. Points are awarded per resource up to the maximum points listed.	0-3 months = 0 points 4-6 months = 5 points 7 or more months = 10 points			
P4	The Bidder should demonstrate that the proposed resource(s) have developed at least one application that uses the GeoJSON data format to exchange information with other applications.	1 or more applications = 10 points	0	10	
P5	The Bidder should demonstrate that the proposed resource(s) have developed at least one application that makes use of Web Feature Service (WFS).	10 points per application up to the maximum	0	20	
P6	The Bidder should demonstrate that the proposed resource(s) have experience working with oceanographic data. Points are awarded per resource, up to the maximum points listed.	Points per resource: 0-6 months = 0 7-11 months = 5 12 or more months = 10	0	20	
P7	The Bidder should demonstrate that the proposed resource(s) have experience working with meteorological data. Points are awarded per resource, up to the maximum points listed.	Points per resource: 0-6 months = 0 7-11 months = 5 12 or more months = 10	0	20	
P8	The Bidder should demonstrate that proposed resource(s) have experience working with geospatial data. Points are awarded per resource, up to the maximum points listed.	Points per resource: 0-6 months = 0 7-11 months = 5 12 or more months = 10	10*	30	
P9	The Bidder should demonstrate that proposed resource(s) have experience working with AIS data. Points are awarded per resource, up to the maximum points listed.	Points per resource: 0-6 months = 0 7-11 months = 5 12 or more months = 10	0	20	
P10	The Bidder should demonstrate that proposed resource(s) experience working with S57 / S63 chart data.	Points per resource: 0-6 months = 0 7-11 months = 5	0	20	

	Points are awarded per resource, up to the maximum points listed.	12 or more months = 10			
P10.1	The Bidder must propose resources with experience within the past 120 months developing software for Distributed Interactive Simulation (DIS).	Points per resource: 0-2 months = 0 3-11 months = 5 12 or more months = 10	0	10	
P10.2	The Bidder must propose resources with experience within the last 120 months developing software for the High Level Architecture (HLA) simulation interoperability standard.	Points per resource: 0-2 months = 0 3-11 months = 5 12 or more months = 10	0	10	
*Must meet the minimum for P8 to be compliant.			10	220	

2.2 Database Modeller/Information Management Modeller – Level 1

	POINT-RATED EVALUATION CRITERIA	POINT BREAKDOWN STRUCTURE	Minimum	Maximum	Please Cross Reference to Specific Pages in your Proposal
P11	The Bidder should demonstrate that proposed resource has experience working with SQL databases.	Less than 12 months = 0 12-23 months = 10 24 or more months = 20	10*	20	
P12	The Bidder should demonstrate that proposed resource has experience with geospatial databases.	Less than 12 months = 0 12-23 months = 10 24 or more months = 20	10*	20	
P13	The Bidder should demonstrate that proposed resource has experience with database design and implementation for big data applications.	Less than 12 months = 0 12-23 months = 10 24 or more months = 20	0	20	
*Must meet the minimums for P11 and P12 to be compliant			20	60	

2.3 Overall Points for Tables 2.1 and 2.2

	Minimum	Maximum	
Minimum and Maximum points for 2.1 and 2.2	140	280	

3. SELECTION METHODOLOGY

Highest Responsive Combined Rating of Technical Merit and Price

- Weighting factor for the price: 40%
- Weighting factor for the technical point-rated score: 60%

SECTION 3 – PAYMENT

1. Under 7.9.1 Basis of Payment

Delete: In its entirety

Insert: The following

7.9.1 Basis of Payment

Basis of Payment: Individual Task Authorizations

The Contractor will be paid for the Work specified in the authorized task authorization, in accordance with the Basis of Payment at Annex B.

Canada's liability to the Contractor under the authorized task authorization must not exceed the limitation of expenditure specified in the authorized task authorization. Custom duties are included and Applicable Taxes are extra.

No increase in the liability of Canada or in the price of the Work specified in the authorized task authorization resulting from any design changes, modifications or interpretations of the Work will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been authorized, in writing, by the Contracting Authority before their incorporation into the Work.

7.9.1.1 Travel and Living Expenses – National Joint Council Travel Directive

The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C, and D of the National Joint Council Travel Directive and with the other provisions of the directive referring to "travellers", rather than those referring to "employees."

All travel must have the prior authorization of the Technical Authority.

All payments are subject to government audit.

2. Under 7.9.2 Limitation of Expenditure

Delete: in its entirety

Insert: the following

7.9.2 Limitation of Expenditure – Cumulative Total of all Task Authorizations

1. Canada's total liability to the Contractor under the Contract for all authorized Task Authorizations (Tas), inclusive of any revisions, must not exceed the sum of \$..... Custom duties are included and Applicable Taxes are extra.
2. No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approve, in writing, by the Contracting Authority.
3. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
 - a. When it is 75 percent committed, or
 - b. Four (4) months before the contract expiry date, or
 - c. As soon as the Contractor considers that the sum is inadequate for the completion of the Work required in all authorized TAs, inclusive of any revisions, whichever comes first.
4. If the notification is for the inadequate contract funds, the Contractor must provide to the Contracting Authority, a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

3. Under 7.9.3 Monthly Payment

Delete: in its entirety

Insert: the following

Progress Payments

1. Canada will make progress payments in accordance with the payment provisions of the Contract, no more than once a month, for cost incurred in the performance of the Work, up to 90 percent of the amount claimed and approved by Canada if:

- a. An accurate and complete claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract.
- b. The amount claimed is in accordance with the basis of payment;
- c. The total amount for all progress payments paid by Canada does not exceed 90 percent of the total amount to be paid under the Contract.
- d. All certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives.

All other terms and conditions remain unchanged.